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A1 Sub B1

1. A method of inhibiting transport of anandamide in an individual or animal comprising administering to the individual or animal a therapeutically effective amount of a compound represented by the following structural formula:

X - Y - Z

and physiologically acceptable salts thereof, wherein:

X is a member selected from the group consisting of a hydrophobic aliphatic hydrocarbon chain containing from about 4 to about 30 carbon atoms and comprising one or more nonconjugated cis double bonds and a terminal radical selected from the group consisting of hydrogen, aryl and aryl substituted with a member selected from the group consisting of hydroxy, halogen, $-NO_2$, $-NH_2$, $-CH_3$, $-OCH_3$ and $-SCH_3$, or biphenyl or biphenyl having a terminal straight or branched alkyl group of about 1 to about 10 carbon atoms;

Y is selected from the group consisting of hydrogen, -NH-C(O)-, -NH-, -NH-C(O)-NH-, -NH-C(O)O-, -C(O)-NH-, -O-C(O)-, -O- and -S-; and

Z is selected from the group consisting of hydrogen, aryl, alkyl aryl, halogen substituted alkyl aryl, cyclic glycerols and substituted cyclic glycerols.

A2

8. A compound represented by the following structural formula:

X - Y - Z

and physiologically acceptable salts thereof, wherein:

X is a member selected from the group consisting of a hydrophobic aliphatic hydrocarbon chain containing from about 4 to about 30 carbon atoms and comprising one or more nonconjugated cis double bonds and a terminal radical selected from the group consisting of hydrogen, aryl and aryl substituted with a member selected from the group consisting of hydroxy, halogen, $-NO_2$, $-NH_2$, $-CH_3$, $-OCH_3$ and $-SCH_3$, or biphenyl or biphenyl having a terminal straight or branched alkyl group of about 1 to

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about 10 carbon atoms;

Y is selected from the group consisting of hydrogen, -NH-C(O)-, -NH-, -NH-C(O)-NH-, -NH-C(O)O-, -C(O)-NH-, -O-C(O)-, -O- and -S-; and

Z is selected from the group consisting of hydrogen, aryl, alkyl aryl, halogen substituted alkyl aryl, cyclic glycerols and substituted cyclic glycerols wherein Z cannot be hydrogen if Y is C(O)-NH-.